

Applicant: Calvin F. QUATE et al.

Examiner: TBD

Serial No: (Unassigned)

Group Art Unit: TBD

Filing Date: (Herewith)

Title: METHOD FOR DETECTING CHEMICAL INTERACTIONS BETWEEN
NATURALLY OCCURRING BIOLOGICAL ANALYTE MOLECULES (AS
AMENDED)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 CFR § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form are called to the attention of the Examiner for the above patent application.

Citation of these documents shall not be construed as (1) an admission that the documents are necessarily prior art with respect to the instant invention; (2) a representation that a search has been made, other than as described above; or (3) an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

Included herewith are photocopies of references 'I' and 'V' - 'AD'. To avoid lengthy and unwieldy printed documents, the U.S. and Foreign Patent Publications cited on the accompanying form, i.e., references 'D' - 'H' and 'J' - 'N', are provided in Adobe Acrobat (.pdf) format on the accompanying CD-ROM (2 copies) per the accompanying petition under 37 CFR §§ 1.181, 1.182, or 1.183. Copies of references 'A' - 'C' and 'O' - 'U' are omitted, as these references were submitted and reviewed by the examiner during prosecution of the parent application, U.S. serial no. 09/097,675. If the examiner would like hard copies of any reference on the CD, or any reference not provided for the aforementioned reasons, please contact the undersigned and the reference(s) will be provided.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 01-0431. Please deduct any additional fees from, or credit any overpayment to the Deposit Account of Affymetrix, Inc., number 01-0431.

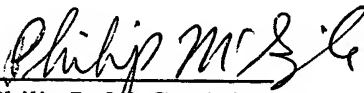
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Dated: 1-29-02

Respectfully submitted,


Philip L. McGarrigle
Reg. No. 31,395

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Application Number	(unassigned)
Filing Date	January 30, 2002
First Named Inventor	Calvin F. Quate
Group Art Unit	TBD
Examiner Name	TBD
Attorney Docket Number	3053.1C

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	A	US-5,372,930	12-13-1994	Colton et al.	
	B	US- 5,510,481	04-23-1996	Bednarski et al.	
	C	US- 5,807,758	03-20-2001	Lee et al.	
	D	US- 5,824,473	10-20-1998	Meade et al.	
	E	US- 6,087,100	07-11-2000	Meade et al.	
	F	US- 5,952,172	09-14-1999	Meade et al.	
	G	US- 6,090,933	07-18-2000	Kayyem et al.	
	H	US- 6,144,975	11-07-2000	Harris Jr. et al.	
	I	US- 6,203,983	05-20-2001	Quate et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	J	US99/25464	05-04-2000	Bamdad et al.		
	K	US97/09739	12-11-1997	Meade et al.		
	L	US98/12430	12-17-1998	O'Connor et al.		
	M	US99/10104	11-11-1999	Bamdad et al.		
	N	US99/01703	11-11-1999	Bamdad et al.		

Date
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

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Attorney Docket Number	3053.1C

Sheet 2 of 3

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	O	BERGER et al., Surface Stress in the Self-Assembly of Alkanethiols on Gold, Science, Jun. 27, 1997 Vol. 176, p. 2021	
	P	BERGER et al., Nanometers, Picowatts, Femtojoules: Thermal Analysis and Optical Spectroscopy Using Micromechanics, Analytical Methods & Instrumentation, Special Issue, .mu.TAS '96	
	Q	GIMZEWSKI et al., Observation of a Chemical Reaction Using a Micromechanical Sensor, Chemical Physics Letters, Vol. 217, No. 5,6, Jan. 28, 1994	
	R	MINNE et al., Automated Parallel High-Speed Atomic Force Microscopy, Applied Physics Letters, Vol. 78, No. 18, May 4, 1998	
	S	MANALIS et al., Interdigital Cantilevers for Atomic Force Microscopy, Applied Physics Letters, Vol. 69, No. 25, Dec. 16, 1996	
	T	LANG et al, Sequential Position Readout from Arrays of Micromechanical Cantilever Sensors, Applied Physics Letters, Vol. 73, p. 383, 1998	
	U	MANALIS et al., Two Dimensional Micromechanical Bimorph Arrays for Detection of Thermal Radiation, Applied Physics Letters, Jun. 16, 1997	
	V	YU et al., Molecular Wires attached to DNA Oligonucleotides for Electronic Detection of Nucleic Acids, Abstracts of Papers of the American Chemical Society, 1999, Vol. 217, No. 1, Mar. 21, 1999	
	W	YU et al., Ribose-attached Ferrocene DNA Oligonucleotides for Electronic Detection of Nucleic Acids, Abstracts of Papers of the American Chemical Society, 1999, Vol. 217, No. 1, Mar. 21, 1999	
	X	YU et al., Uridine-conjugated Ferrocene DNA Oligonucleotides for Electronic Detection of Nucleic Acids, Abstracts of Papers of the American Chemical Society, 1999, Vol. 217, No. 1, Mar. 21, 1999	
	Y	TERBREUGGEN et al., Electrochemical Detection of Unlabeled Target DNA, Abstracts of Papers of the American Chemical Society, 1999, Vol. 218, 1, Aug 22, 1999	

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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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STATEMENT BY APPLICANT**

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	Z	KAYYEM et al., DNA Diagnostics Using ELectronic Detection, Clinical Chemistry, 1999, Vol. 45, N6,2,S, Jun. 1999	
	AA	BLACKBURN et al., Electrochemical Detection of Nucleic Acids on SAMs-Constructed Arrays, Abstracts of Papers of the American Chemical Society, 2001, Vol. 222, 2, Aug. 2001	
	AB	YU et al., Electrochemical Detection of Nucleic Acids on DNA Arrays Constructed Using Self-Assembled Monolayers, Abstracts of Papers of the American Chemical Society, 2001, Vol 221, 2, April 1, 2001	
	AC	FOLKERS et al., Self Assembled Monolayers of Alkanethiols on Gold: Comparisons of Monolayers Containing Mixtures of Short and Long Chain Constituents with CH ₃ and CH ₂ OH Terminal Groups, Langmuir, 1992, Vol. 8, pp. 1330-1341, May 1992	
	AD	UMEK et al., Electronic Detection of Nucleic Acids - A versatile Platform for Molecular Diagnostics, Journal of Molecular Diagnostics, 2001, Vol. 3, No. 2, pp. 74-84, May, 2001.	

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